TEST YOUR KNOWLEDGE...

Interphase

1. When a eukaryotic cell divides in half, two new cells are formed that are called _____ cells.
2. Normally in a cell, DNA is in a jumbled mess called _____.
3. Interphase itself has three phases called G1, G2 and _____.

Prophase

1. During Prophase, which of the following disappear?
2. During Prophase, pairs of sister chromatids coil up to roughly form the shape of ___.
3. What forms during prophase to spread apart the centrosomes?

Prometaphase

1. The _____ breaks down to allow microtubules to enter and attach to chromosomes.
2. Spindle fibers stretch from the ends of the cell or _____.
3. The attachment point for spindle fibers to the sister chromatids is the _____.

Metaphase

1. Chromatids that begin moving in Prometaphase are now aligned along the _____ of the cell.
2. What controls the direction the sister chromotids face?
3. In metaphase each pair of sister chromatids face toward _____.

Anaphase

1. Anaphase begins when sister chromatids separate from the _____ and begin moving toward the poles.
2. The sister chromatids are pulled toward opposite poles by shortening the _____.
3. At the end of Anaphase each pole has _____ of chromosomes.

Telophase

1. The_____ reappears during telophase.
2. During Telophase, microtubules not attached to the kinetochores continue to _____ the cell.
3. These begin to reform in the nuclei during telophase.

Cytokinesis

1. Which of the following occurs during cytokinesis?
2. When cytokinesis is over, which of the following is true?
3. What follows Cytokinesis?